

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

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Documentation (Approvals etc...)

Information Security Management

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2016

### ISM1 Curriculum Modification for 2017-18 (1)

Fanshawe College

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# CURRICULUM MODIFICATION REQUEST FORM

## COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

### Program Requiring Changes

Program Title: Information Security Management		
Program Number: ISM1	Date Submitted: 11/17/2016	
Dean responsible for program: David Belford	Chair: Jim Edwards	
Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input type="checkbox"/> Ontario College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma <input checked="" type="checkbox"/> Grad Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship		
Program Intakes: <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> S   Other:	Catalogue Year(s) Impacted: 2017/2018	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 1/19/2016	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Dean of Faculty (responsible for program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>LBelford Nov. 26/16</i>
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Dean of Faculty (impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Senior Vice President Academic (required for major changes and late DAs):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Judy Geddes Dec 19/16</i>
Office of the Registrar:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Attawood Dec. 9/16</i>

*Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.*

1.0 Describe proposed change(s). Complete Appendix A (if necessary) and amend SDAR (Refer to Appendix C).

- INFO 6026 Security Programming, name changed to more accurately reflect content, now INFO 6042 Web Security.
- INFO 6011 Applied Project Management restored to program as it is a requirement for the pathway established with the University of Gloucestershire.
- INFO 6004 Strategic IT removed from programme, to allow Info 6011 to be restored.
- ACAD 6002 Graduate Success Strategies added to the programme to address some of the shortcomings resulting from the removal of MGMT 6051.

2.0 Reason/Rationale for Changes

2.1 The reason for the change is based on:

- ☒ A recent program review
- ☐ College Advisory Committee feedback
- ☒ Program Advisory Committee feedback
- ☐ Student feedback
- ☐ KPI results
- ☐ Accreditation or other regulatory requirements
- ☐ Shared curriculum
- ☐ Trends in the field/industry
- ☒ Other (please describe): INFO 6011 restored to meet requirements of pathway with University of Gloucestershire.

2.2 Does the change support the College's Strategic Framework (mission, vision, values)?

- ☒ Yes
- ☐ No (If no, please explain)

2.3 What strategic goal(s) does the proposed change support?

- ☐ Goal 1 - Enrolment growth

- ☐ Goal 2 - Flexible delivery options
- ☒ Goal 3 - Premier student experience
- ☐ Goal 4 - Sustainable College life

### 3.0 Students

3.1 Will the change affect the cost of the program for students?

- ☒ Yes
- ☐ No

3.2 If yes, there will be an additional cost for:

- ☐ Materials (Include details):
- ☐ Equipment (Include details):
- ☐ Other (Please describe):

### 4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B)

- ☒ Yes
- ☐ No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

- ☒ No
- ☐ Yes (If yes, please explain)

### 5.0 Relationships with Other Programs

5.1 Are any of the courses impacted by the change provided by another School (e.g., SLLS, LKSB) and/or delivered at another campus?

- ☒ No
- ☐ Yes

5.2 What Schools/Campuses will be impacted by the proposed change?

- ☒ School of Information Technology
- ☐ Lawrence Kinlin School of Business
- ☐ School of Tourism and Hospitality
- ☐ School of Health Sciences
- ☐ School of Human Services
- ☐ School of Nursing
- ☐ School of Public Safety
- ☐ School of Contemporary Media
- ☐ School of Design



- ☐ School of Language and Liberal Studies
- ☐ School of Aviation Technology
- ☐ School of Applied Sciences and Technology
- ☐ Donald J. Smith School of Building Technology
- ☐ School of Transportation Technology
- ☐ Continuing Education
- ☐ Simcoe/Norfolk Regional Campus
- ☐ Woodstock/Oxford Regional Campus
- ☐ St Thomas/Elgin Regional Campus

5.3 Will the change affect pathway agreements (e.g., bridging, articulations, laddering, advanced standing) with other Fanshawe program(s) and/or other institution(s)?  
(Refer to the pathway agreements listed here: <http://transferagreements.fanshawec.ca/>)

- ☒ No
- ☐ Yes (If yes, indicate when you will notify the other Fanshawe program(s) and/or other institution(s) of the change)

5.4 If this program is a Co-Operative Education program, will the proposed change impact Co-op?

- ☒ No
- ☐ Yes (If yes, consult with the Co-op office prior to submission)

## 6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- ☐ No
- ☒ Yes (If yes, please explain) Addition staff for 15 hours per semester.

6.2 Will the proposed change impact any of the Enabling areas?

- ☒ No
- ☐ Yes (If yes, please explain)

6.3 Will the proposed change affect space and/or technology requirements?

- ☒ No
- ☐ Yes (If yes, please explain)

## 7.0 General College Requirements

7.1 Are changes consistent with Colleges policies/practices?

- ☒ Yes
- ☐ No (If no, please explain)

7.2 Indicate:

- i) Total program hours before proposed change: 645
- ii) Total program hours after proposed change: 659
- iii) Level(s) in which the proposed change(s) occurs: 1 & 2

7.2.1 Are the total program hours consistent with the requirements as listed below?

- ☒ Yes
- ☐ No (If no, please explain)

<b>Local Certificate</b> - 300 hours	<b>Ontario College Certificate</b> - 600 hours
<b>Diploma</b> - 1200 to 1400 hours	<b>Advanced Diploma</b> - 1800 to 2000 hours
<b>Graduate Certificate</b> - 600 hours	

7.3 Will the program meet the General Education requirements (Policy 2-B-02) as listed below?

- ☐ No
- ☒ Yes

<b>Local Certificate, Ontario College Certificate and Graduate Certificate</b> - none required)	<b>Diploma</b> - 3 required (minimum of 1 must be an elective)	<b>Advanced Diploma</b> - 4 required (minimum of 2 must be electives)
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7.4 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advanced standing) with other Fanshawe programs and/or other institutions.

- ☐ No
- ☒ Yes

**Note:** In accordance with POLICY NUMBER: 2-B-17 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

**APPENDIX A: PROPOSED DEGREE AUDIT CHANGES - ISM**

Course Code	Existing DA Courses	Total Hours	Total Credits	Describe proposed changes	Course Code	Proposed DA Courses	Total Hours	Total Credits
Level 1								
INFO-6001	Infromation Security	60	4		INFO-6001	Infromation Security	60	4
INFO-6002	Network systems and components	45	3		INFO-6002	Network systems and components	45	3
INFO-6003	O/S and applications security	60	4		INFO-6003	O/S and applications security	60	4
INFO-6026	Security Programming	45	3	Name change	INFO-6042	Web Security	45	3
INFO-6027	Security planning	45	3		INFO-6027	Security planning	45	3
INFO-6047	Routing & Switching	75	5		INFO-6047	Routing & Switching	75	5
				New course	ACAD 6002	Graduate Success Strategies	14	1
TOTAL		330	22	TOTAL			344	23
Level 2								
INFO-6048	CCNA Security	75	5		INFO-6032	CCNA Security	75	5
INFO-6008	IT Auditing	45	3		INFO-6008	IT Auditing	45	3
INFO-6009	Network Monitoring & Penetration Testing	45	3		INFO-6009	Network Monitoring & Penetration Testing	45	3
INFO-6010	CISSP Prep	45	3		INFO-6010	CISSP Prep	45	3
INFO-6065	Ethical Hacking & Exploits	60	4		INFO-6012	Ethical Hacking & Exploits	60	4
INFO-6004	Strategic IT	45	3	Removed from programme				
				Restore course	INFO-6011	Applied Project Management	45	3
TOTAL		315	21	TOTAL			315	21
PROGRAM TOTAL		645	43	PROGRAM TOTAL			659	44



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	<b>PROGRAM MAPPING (INFORMATION SECURITY MANAGEMENT - ISM1 )</b>																	
2		<b>LEVEL ONE</b>									<b>LEVEL TWO</b>							
3	<b>PROGRAM VOCATIONAL LEARNING OUTCOMES</b>	INFO 6001 Information Security	INFO 6002 Network Systems & Components	INFO 6003 O/S & Applications Security	INFO 6042 Web Security	INFO 6027 Security Planning	INFO 6047 Routing & Switching	ACAD 6002 Graduate Success Strategies			INFO 6048 CCNA Security	INFO 6008 I.T. Auditing	INFO 6009 Network Monitoring & Penetration Testing	INFO 6010 CISSP Prep	INFO 6011 Applied Project Management	INFO 6065 Ethical Hacking & Exploit Detection		# OF COURSES EVALUATING THE OUTCOME
4	<b>Results of Program Review - PVLO mapping - updated November 2016</b>																	
5	<b>1 - Introductory</b>																	
6	<b>2 - Intermediate</b>																	
7	<b>3 - Advanced</b>																	
8	The graduate has reliably demonstrated the ability to: (Source: MTCU Code:)																	
9	1. Apply knowledge of computer operating systems, networking, and various application software to the simulation of business processes	3	2	3	2	2	2				3	3	3	3		3		11
10	2. Develop best practices to protect business resources through the application of knowledge of vulnerabilities and exploits	3	1	3	2	2	2				2		3	3		3		10
11	3. Develop security strategies for the deployment of security procedures and protective devices	3	1	2		2	2				3		3	3				8
12	4. Integrate information technology strategies that support business functions by employing knowledge of best practices of business processes and systems	3	2	2		2	2				2	3	3	3				9
13	5. Develop security plans and strategies to include acceptable use of business information and systems by internal employees, contractors, consultants, business partners and customers		2			3						3			3			4
14	6. Develop security plans and strategies to ensure the integrity of information in compliance with best practices, relevant policies, standards, and regulations	3	2			3					3	3						5
15	7. Apply project management principles in the deployment of security policies and strategies					2						3	2		3			4
16	8. Perform security audits to ensure compliance with security plans, policies, standards, regulations and best practices			2	2							3	2			3		5
17	9. Develop and deliver a corporate training program to communicate both orally and in writing the security requirements for compliance with security policies					2							3					2
18	10. Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets business requirements.					2		1				2			3			4
19	11. Prepare security documentation for approval by senior management and present results of security audits					2		1				3	3		3	3		6
20	<b>TOTAL # OF OUTCOMES EVALUATED BY EACH COURSE</b>	5	6	5	3	10	4	2	0		5	8	8	4	4	4	0	
21	V = Vocational Courses E = Essential Employability Skills Courses																	
22	GM = General Education (mandatory) G = General Education (elective)																	
23																		
24	<b>NB - Only indicate the outcomes that are Taught &amp; Evaluated (TE or TRE) in a course</b>	<b>Analysis of Mapping Results:</b>     																
25																		
26	PROGRAM COORDINATOR: Clive Wright																	
27																		
28	ACADEMIC CHAIR: Jim Edwards																	
29																		
30	Date Completed: updated November 2016																	
31																		



## Degree Audit Report

Catalog: 2016/2017

2017/2018  
**Program:** ISM1  
**Department:** ITY - Information Technology  
**Academic Level:** PS  
**CCD:** 7 - 2AcadSem/600-700 hrs

**Name:** Information Security Management

**Grade Scheme:** LG2  
**Major:** ISM1 - Information Security Mgmt  
**Co-Op Indicator:** N/A

**Div:** ITY - Information Technology Division**Academic Program Requirement**

**Total Credits:** 43.00 ~~44.00~~  
**GPA Requirement:** 2.000  
**Minimum Grade:** D  
**Residency Reqmt:** 11.00  
**Residency Reqmt GPA:** 2.000

**Academic Requirement:** ISM1.16 Information Security Management

**Major:** ISM1  
**Grade Scheme:** LG2  
**Minimum GPA:** 2.00000  
**Minimum Grade:**

**Subrequirement:** Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
INFO-6001	Information Security	60.00	4.00	
INFO-6002	Network Systems & Components	45.00	3.00	
INFO-6003	O/S & Applications Security	60.00	4.00	
<del>INFO-6026</del> 6047	<del>Security Programming</del> WEB SECURITY	45.00	3.00	
INFO-6027	Security Planning	45.00	3.00	
INFO-6047	Routing & Switching	75.00	5.00	
6002	GRADUATE SUCCESS STRATEGIES	14.00	1.00	

**Subrequirement:** Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
INFO-6048	CCNA Security	75.00	5.00	
INFO-6008	I.T. Auditing	45.00	3.00	
INFO-6009	Network Monitoring & Penetration Testing	45.00	3.00	
INFO-6010	CISSP Prep	45.00	3.00	
INFO-6065	Ethical Hacking & Exploits	60.00	4.00	
<del>INFO-6004</del>	<del>Strategic IT</del>	<del>45.00</del>	<del>3.00</del>	
INFO-6011	APPLIED PROJECT MANAGEMENT	45.00	3.00	

**Subrequirement:** Program Residency

Students Must Complete a Minimum of 11 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

Approved By Chair/Manager:

Approved by Dean:

Department and Date:

Date:

General Education Approved By(as appropriate):

Date:

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 DEC 19/16